

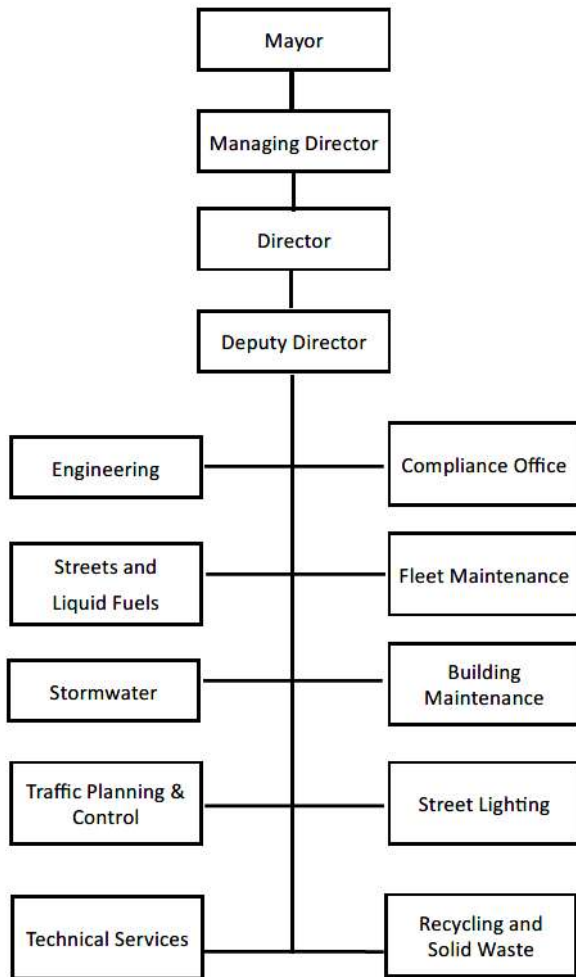


# Allentown

**All Inspiring**



Public  
Works  
2022



182 Employees

158 Full-time  
7 Part-time  
17 Summer/Interns

# Office of Compliance 2021 Accomplishments

- PADEP approved the Act 537 submitted back in September 2020 enabling development within the City to continue with the anticipated additional ~1.36 MGD in new sewage flows for 2021-2025
- Regional Flow Management Strategy -Cycle Two- for the reduction of Inflow and Infiltration (I&I) and provides longevity of system.
- Revived (per settlement agreement) Major Capital Improvement Projects: Water Main Replacement, High Lift Pumps at WFP, Solids Processing Boiler and Heating Upgrade at KIWWTP.
- Closeout of the Automatic Meter Reading project, the last Uncompleted Works project.



# Office of Compliance 2022 Outlook

- Continue to assess LCA's compliance with City Ordinances, the Concession Agreement, Operating Standards, and revised Settlement Agreements
- Work with LCA to develop and implement financial assistance program for qualified low-income City ratepayers.
- Continue to manage fully implement the Regional Flow Management Strategy projects ensuring compliance with the EPA.
- Maintain stewardship of Capital Programming and work with LCA to develop alternative funding options.
- Gather information, create programs, and develop projects for the 2026-2050 ACT 537 report as required by PaDEP





# Engineering 2021 Accomplishments



- Coordinate with PennDOT on the construction on the Gordon Street Bridge; \$3.3M
- Design & inspect ADA Ramp contract for East Side roads previously paved worth \$880K (*CDBG Funding*)
- *Design & Inspect ADA Ramp contract for 2021 UGI roads – Estimate 1.2M*
- Completed the 2021 Street Maintenance program of 5.81 miles; \$620K
- Inspect construction on Gordon Street streetscaping/ lighting 5<sup>th</sup> – 7<sup>th</sup>; \$420K (*State Grant \$250K, CDBG \$170K*)
- Completed the 2021 Curb and Sidewalk programs; \$573K
- Inspect construction on American Parkway lighting from Union Street to Airport Road
- Inspect infiltration Water quality storm water basin at 6th & Sumner
- Continue to perform multiple subdivision and land development reviews and inspections for ongoing Citywide developments
- Inspect and approve construction for Riverside Dr and relocation of Lehigh Parkway East
- Snow Removal throughout the City – \$268K

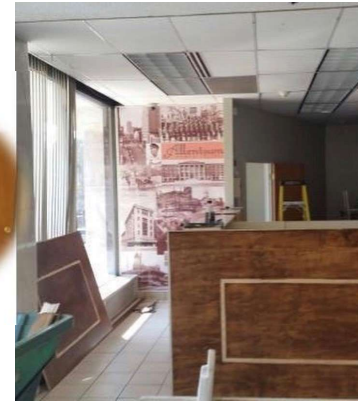
# Engineering 2022 Outlook



- Prepare, bid, administer, and inspect the 2022 ADA Handicap Ramp Contract in UGI project areas; *estimated construction cost of \$1.3M (UGI Contribution)*
- Prepare, bid, administer and inspect the 2022 Street Maintenance Contract; *estimated construction cost of \$600K*
- Evaluate roads previously paved under UGI Cost sharing for any hazardous sidewalk.
- Prepare contract documents for Bridge Repairs to construct scour protection improvements to bridges impacted by Hurricane Isaias and other repairs; *estimated construction cost of \$300K*
- Anticipate completion of the Underground Storage Tank PADEP Closure for PADEP; *\$85K*
- Inspection of Riverside Drive for phase 2 and 3.
- Perform Small Cell Tower Permit Reviews; *300+ anticipated*
- Perform all Major and Minor Land Development and Subdivision Reviews and inspections.

# Building Maintenance 2021 Accomplishments

- Completed the construction of the new lobby in Public Safety Building
- Converted oil boiler to high efficiency gas boiler at the Golf Course
- Worked with a contractor on the replacement of the City Hall chiller
- Remodeled the old credit union into two offices
- Renovated part of the IT training room to include 4 new offices for Stormwater staff
- Replaced water softener and hot water heater at City Hall
- Replaced HVAC unit and duct work at the Golf Course
- Replaced 2 HVAC units in Bridgeworks Traffic area



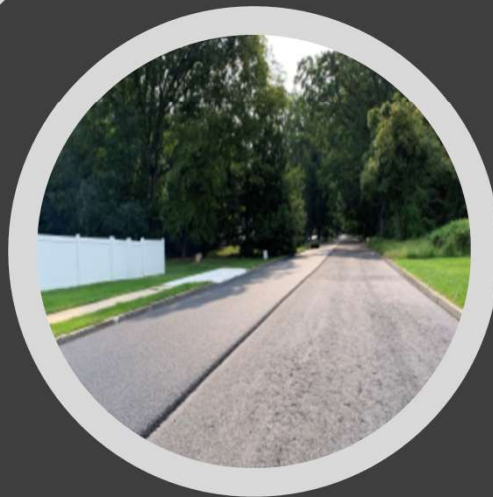
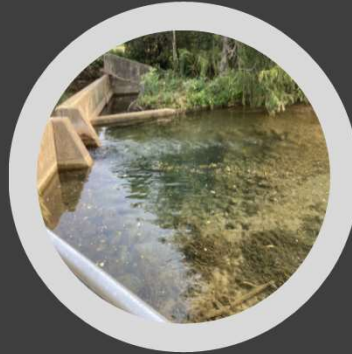
# Building Maintenance 2022 Outlook

- Renovate the Finance Suite
- Replace panel siding at the City Garage
- Several roof repairs
  - City Garage, Mack Fire Station, Hibernia Fire Station
- Replace 3 HVAC units at Vice
- Replace boiler and HVAC furnace at Bridgeworks Recycling
- Complete several painting and carpet replacement jobs
- Continue to thoroughly clean and disinfect all City buildings
- Continue to address work orders in a timely manner
- Continue to work on LED lighting upgrades in City buildings





# Streets & Liquid Fuels 2021 Accomplishments



- Paved 4.75 miles of City streets & alleys
  - UGI Cost Share – 3.09 miles (\$322,062.38 invoiced to date)
  - Streets Program – 1.66 miles
- Assisted Parks:
  - Trexler Pond – dredging
  - Lehigh Parkway – stoned pathways – 7 miles
  - Golf Course – dug out and extended parking lot
- Assisted Recycling in digging out and extending lot at MLK drop off center
- Repaired 7,823 potholes (YTD)
- Swept 7,947.5 cubic yards of debris from City streets.
- Completed 95.0 curb backups.
- Collected 216.0 cubic yards of leaves (YTD, annual estimate of 25,000 cu.yds).
- Continue to generate revenue by completing LCA water cuts - \$41,734.42 (YTD).
- Purchased an excavator and triaxle to increase efficiency on larger scale projects

# Streets & Liquid Fuels 2022 Outlook

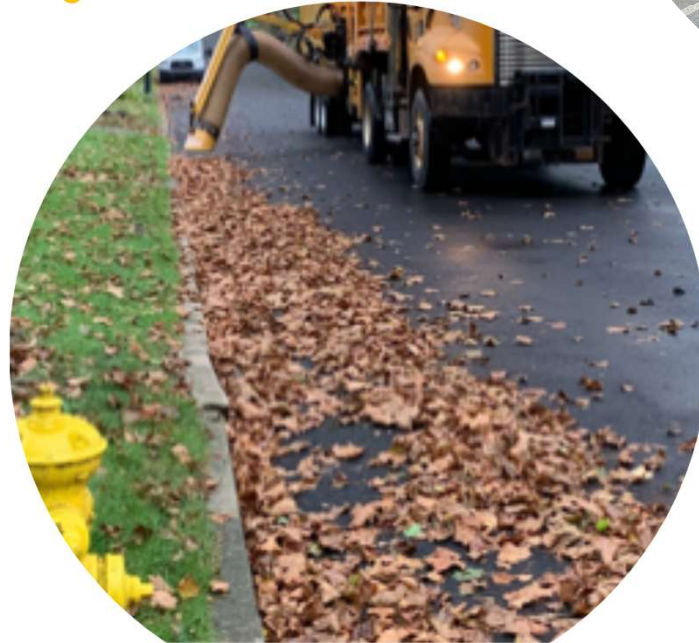


- Continue to work with utilities on cost sharing projects to improve infrastructure and the repaving of roads.
  - UGI – adding an additional 6.57 miles costing around \$821,626 in material
  - LCA – approx. 2/3 of a mile, costing around \$90,000
- Repave Liberty St from Alright Ave to 26<sup>th</sup> St (est. \$96,000)
- Milling and overlay approximately 5 miles on the Streets Program
- Assist Parks in paving:
  - Lot at Fish Hatchery (est. \$5,009)
  - Basketball court at Ithaca Park (est. \$5,049)
  - Old Parks building lot (est. \$12,345.25)
  - Gas pad at 2100 Linden St (est. \$3,096.75)
- Assist with completion of mandated MS-965 reporting on our Liquid Fuels actual use.
- Prep roads for micro-surfacing project approximately 5 miles (est. \$50,000)
- Purchase new paving machine



# Fleet Maintenance 2021 Accomplishments

- Completed 432 annual state inspections.
- Completed 77 semi-annual safety inspections.
- Purchased 296,110.0 gallons of fuel (YTD)
  - 122,304.0 gal diesel / 173,806.0 gal unleaded
- 98% of fleet availability.
- Purchased 30-yard, self contained leaf machine
- Assisted in the identification and purchase of fleet capital equipment; \$1.5M
- Expanded monitoring program of the Spotted Lanternfly, through fleet maintenance liaisons



# Fleet Maintenance 2022 Outlook

- Performing at least 300 - 3,000 mile inspections / 500 – 6,000 mile inspections / 115 - 10,000 mile inspections.
- Performing at least 460 state inspections.
- Extending the useful life of the truck fleet through prepping and repainting dump bodies and utilizing preventative rust control treatments.
- Improve/upgrade computer database for fleet maintenance tracking.
- Continue to use computer scheduling for preventative maintenance.
- Continue to look for fuel saving technologies and alternative fuel opportunities.
- Expanding video coverage in vehicles to help reduce accident investigation time and potentially reduce City's liability.
- Assisted in the identification and purchase of fleet capital equipment; \$1.5M







## Traffic Planning & Street Lighting 2021 Accomplishments

- American Parkway Solar Street Lighting from Union Street to Airport Road
- Gordon Street Bridge Modification Project
- Green Light Go Lehigh Street Corridor Management Project
- Martin Luther King Jr. Drive and Lehigh Street Intersection Modifications

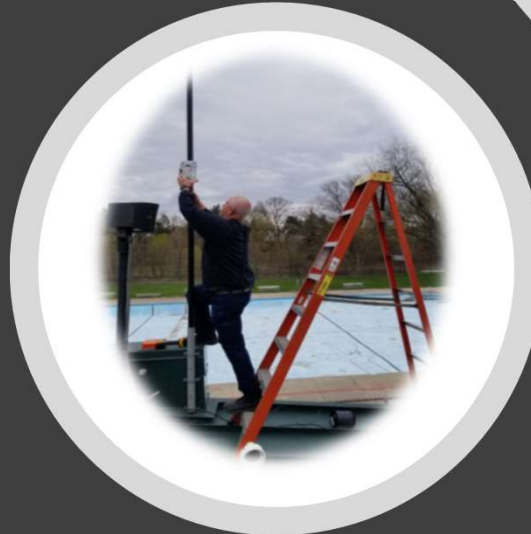


## Traffic Planning & Street Lighting 2022 Outlook

- Street Light LED conversion, Phase 2 is complete. Phase 3 & 4 is started. Approximately 4300 Lights.
- Mack Boulevard Street Lighting –56 new solar lights between Trout Creek Run & Emmaus Avenue.
- 15<sup>th</sup> Street Corridor Traffic Signals & System Extension, along with New Signals at 15<sup>th</sup> & Highland Street.
- Building 21 School Flasher, MLK Jr. Dr. & Parkette pedestrian crossing with RRFB (rapid reflective flasher beacon)
- Hanover Avenue Corridor traffic signal improvements – between Albert Street and Wahneta Street.

# Technical Services 2021 Accomplishments

- Worked with APD on replacing 10 cameras that were originally purchased in 2007 and have passed their useful life.
- Continued to repair radios and cameras during failures as well as performing preventive maintenance on 1/2 of city cameras.
- Purchased and deployed multiple band radios for five paramedic supervisors. Radios will be used with mutual aid radio coverage when leaving the city to assist other EMS departments as well as for Mutual in to the City.
- Purchased and deployed multiple band radios for the Fire Department HazMat team and one Engine Company. Radios will be used with mutual aid radio coverage when leaving the city to assist other Fire Departments
- Installed Emergency Lighting, Siren and Radio equipment on 2020 & 2021 Police, Fire & EMS Fleet.
- Continue to change out Police & EMS MDTs purchased from 2013 to 2015







# Technical Services 2022 Outlook

- Work with APD to continue replacing cameras that have passed their useful life. Working on replacement of 2007 to 2009 cameras.
- Work on upgrading and adding any additional cameras for security purposes on City Buildings.
- Continue to change out radios from Fire & Police that were purchased in 2009 & 2013. Most of these radios will be multiple band radios for use in mutual aid responses.
- Install Emergency Lighting, Siren and Radio equipment in Police, Fire & EMS Fleet as needed
- Continue to change out Fire & EMS MDTs that were purchased in 2013 & 2015
- Continue assisting with EMA and addition of new building at Mack South



# Recycling & Solid Waste 2021 Accomplishments

- Issued 5,406 SWEEP Tickets for \$181,000
- Issued 130 SWEEP Tickets for illegal dumping at the Drop Off Center for \$23,000
- Organized large cleanup of paper alley near Utica & N George Street and removed 6 tons of trash and debris
- Clean up at Jordan Meadows removed 243 tons of trash and debris
- 410 neighborhood cleanup volunteers participated in 26 events
- 8,711 yard waste site customers
- 261 tons of litter collected from receptacles and 40 tons of litter cleaned up in center city.
- 162 properties cleaned of graffiti
- Recycling education at Summer Playground Programs & new “Keep Allentown Beautiful – Love where you Live” logo and frisbees



# Recycling & Solid Waste 2022 Outlook

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- NO TRASH/RECYCLING FEE INCREASE FOR 2022
- Implement design and layout changes to the Drop Off Center for improved public safety and hauling operations.
- Manage the City's municipal waste and recycling collection and disposal contract.
- Manage the City's recyclable materials contracts for single-stream recycling and from the Recycling Drop-Off Center.
- Submit for reimbursement, a DEP Section 902 Grant of \$324,438 for a day cab tractor, recycling bins, and a walking floor trailer.
- Update and replace covert dumpsite cameras. Continue SWEEP enforcement of ordinances.
- Provide recycling, waste reduction and litter prevention education to residents and businesses.
- Resume Earth Day in the Park! – annual festival





# Stormwater Regulatory Compliance 2021 Accomplishments

- Successfully passed a PA Department of Environmental Protection audit with no violations or deficiencies.
- Hired an Education Manager who expanded outreach efforts to social media & began the development of public programs and a City-wide municipal training program.
- Hired an Environmental Compliance Specialist to perform inspections of industrial facilities and improve our Water Quality Monitoring Program.
- Inspected over 40 industrial & municipal facilities.
- Tested >320 chemical & biological parameters in outfall and stream samples.
- Responded to >50 pollution events through complaint & spill response, enforcement & court action, regulatory notification, and field reconnaissance.
- Inspected & effected repair of 180 privately-owned and municipal stormwater detention and water quality facilities.
- Implemented routine Pollution Prevention Audits of Municipal and Industrial facilities.





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- Continue to manage the requirements of the City's MS4 NPDES permit with no state or federal administrative violations.
  - Study and address the impairments of local streams by monitoring the water quality of runoff for the potential placement of green infrastructure retrofits.
  - Continue to develop the industrial facility inspection program.
  - Conduct 170 inspections of private & public stormwater detention & treatment facilities.
  - Develop a City-wide awareness training and improve pollution prevention measures for municipal operations and properties.
  - Increase public awareness of stormwater pollution by offering classes to teachers and incentives to residents to include rain barrel & downspout garden programs.
  - Address all ratepayer concerns.



## Stormwater Regulatory Compliance 2022 Outlook







## Stormwater Maintenance 2021 Accomplishments

- Completed construction of rain garden at 6th Street & Sumner Avenue.
- Lined 3 miles of storm main throughout the City.
- Repaired 220 inlets & manholes.
- Televised & inspected 16 miles of storm main.
- Removed 750 tons of debris from the infrastructure.





## Stormwater Maintenance 2022 Outlook

- Install 2,000 feet (0.4 mile) of new storm main and structures in Alton Park area.
- Televis & inspect 20 miles of storm main.
- Line 4 miles of storm main.
- Continue to rehabilitate and clean the infrastructure to promote safety & reduce flooding.



A graphic of a stamp with the words "FUN FACTS" in a bold, sans-serif font, tilted slightly to the right. The stamp is dark purple with a white border. It is set against a background of dark purple and magenta shapes.

## FUN FACTS

- ▶ Repaired 9,038 potholes (YTD)
- ▶ Swept 13,663.05 cubic yards of debris from City streets.
- ▶ Completed 134 curb backups.
- ▶ Collected 3,417 cubic yards of leaves (YTD, annual estimate of 25,000 cu.yds).
- ▶ Issued 7,350 SWEEP Tickets and received \$294,422 revenue in 2021
- ▶ Issued 130 SWEEP Tickets for illegal dumping at the Drop Off Center for \$23,000
- ▶ 342 tons of litter collected from receptacles and 40 tons of litter cleaned up in center city.
- ▶ 162 properties cleaned of graffiti
- ▶ Inspected over 40 industrial & municipal facilities.
- ▶ Tested >320 chemical & biological parameters in outfall and stream samples.
- ▶ Responded to >50 pollution events through complaint & spill response, enforcement & court action, regulatory notification, and field reconnaissance.
- ▶ Inspected & effected repair of 180 privately-owned and municipal stormwater detention and water quality facilities.
- ▶ Repaired 220 inlets & manholes.
- ▶ Televised & inspected 16 miles of storm main.
- ▶ Removed 750 tons of debris from the infrastructure.
- ▶ 126 Land Development reviews to date

To see the long version of the Public Works 2021 Accomplishments and 2022 Projects go to our website [www.allentownpa.gov/PublicWorks](http://www.allentownpa.gov/PublicWorks)